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EXPRESS MAIL NO. EV335613713US

**TRANSMITTAL  
FORM***(To be used for all correspondence  
after initial filing)*

Application Number	10/017,462
Filing Date	December 14, 2001
First Named Inventor	Martin T. Pearson
Art Unit	1745
Examiner Name	Angela J. Martin
Attorney Docket No.	130109.442

**ENCLOSURES (check all that apply)**

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form                            | <input type="checkbox"/> Drawing(s)  | <input type="checkbox"/> After Allowance Communication to TC                                     |
| <input checked="" type="checkbox"/> Fee Attached                                    | <input type="checkbox"/> Request for Corrected Filing Receipt                            | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences              |
| <input type="checkbox"/> Amendment/Response   | <input type="checkbox"/> Licensing-related Papers  | <input type="checkbox"/> Appeal Communication to TC ( <i>Appeal Notice, Brief, Reply Brief</i> ) |
| <input type="checkbox"/> After Final  | <input type="checkbox"/> Petition  | <input type="checkbox"/> Proprietary Information   |
| <input type="checkbox"/> Affidavits/declaration(s)                                  | <input type="checkbox"/> Petition to Convert to a Provisional Application                | <input type="checkbox"/> Status Letter   |
| <input type="checkbox"/> Extension of Time Request                                  | <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address | <input checked="" type="checkbox"/> Return Receipt Postcard                                      |
| <input type="checkbox"/> Express Abandonment Request                                | <input type="checkbox"/> Declaration   | <input type="checkbox"/> Other Enclosure(s) ( <i>please identify below</i> ):                    |
| <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 | <input type="checkbox"/> Statement under 37 CFR 3.73(b)                                  | _____  |
| <input checked="" type="checkbox"/> Cited References                                | <input type="checkbox"/> Terminal Disclaimer   | _____  |
| <input type="checkbox"/> Certified Copy of Priority Document(s)                     | <input type="checkbox"/> Request for Refund  | _____  |
| <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53     | <input type="checkbox"/> CD, Number of CD(s) _____                                       | _____  |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application           | <input type="checkbox"/> Landscape Table on CD   | _____  |

Remarks**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

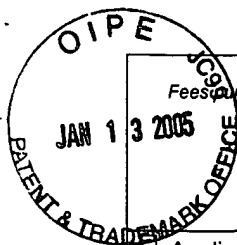
Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number	00500
Signature			
Printed Name	Frank Abramonte		
Date	January 13, 2005	Reg. No.	38,066

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature		
Typed or printed name	SENT VIA EXPRESS MAIL	Date:

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 551206



Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818).

# FEE TRANSMITTAL for FY 2005

**Complete if Known**

Application Number	10/017,462
Filing Date	December 14, 2001
First Named Inventor	Martin T. Pearson
Examiner Name	Angela J. Martin
Art Unit	1745
Attorney Docket No.	130109.442

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$)**180.00**

**METHOD OF PAYMENT (check all that apply)**

☒ Check ☐ Credit Card ☐ Money Order ☐ Other (please identify): \_\_\_\_\_  
☐ Deposit Account Deposit Account Number: 19-1090 Deposit Account Name: Seed IP Law Group PLLC  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)  
☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**  
☐ Charge any additional fee(s) or underpayments ☒ Charge any underpayments or credit any overpayments of fee(s) under 37 CFR 1.16 and 1.17

**Warning:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	Fee (\$)	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
		Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	_____	
Design	200	100	100	50	130	65	_____	
Provisional	200	100	0	0	0	0	_____	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
_____ -20 or HP = _____	X _____	= _____	_____	Fee (\$)
HP = highest number of total claims paid for, if greater than 20				
_____				

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____ -3 or HP = _____	X _____	= _____	_____
HP = highest number of total claims paid for, if greater than 3			

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

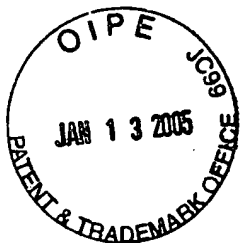
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ -100 = _____	/50 = _____	(round up to a whole number)	x _____	_____
HP = highest number of total claims paid for, if greater than 20				

**4. OTHER FEE(S)**

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	_____
Other: <u>Submission of Information Disclosure Statement</u>	<b>180</b>
_____	_____
_____	_____

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	38,066	Telephone	206-622-4900
Name (Print/Type)	Frank Abramonte	Date	38,066		



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Martin T. Pearson  
Application No. : 10/017,462  
Filed : December 14, 2001  
For : METHOD AND APPARATUS FOR MULTIPLE MODE  
CONTROL OF VOLTAGE FROM A FUEL CELL SYSTEM

01/24/2005 MWOLDGE1 00000057 10017462

01 FC:1806

180.00 OP

Examiner : Angela J. Martin  
Art Unit : 1745  
Docket No. : 130109.442  
Date : January 13, 2005

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

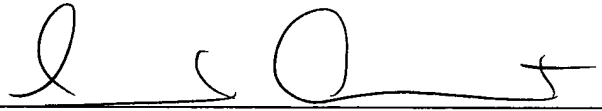
In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicant wishes to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicant does not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserves the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

A fee of \$180 is submitted in accordance with 37 CFR 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

A handwritten signature in black ink, appearing to read 'Frank Abramonte', written over a horizontal line.

Frank Abramonte

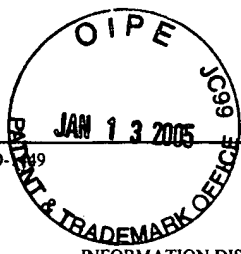
Registration No. 38,066

Enclosures:

Postcard  
Check  
Form PTO-1449  
Cited References (12)

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

551218



EXPRESS MAIL NO. EV335613713US

Sheet 1 of 3FORM PTO-109  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

130109.442

APPLICATION NO.

10/017,462

INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

APPLICANT

Martin T. Pearson

FILING DATE

December 14, 2001

GROUP ART UNIT

1745

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,800,208	03/26/74	Macharg	320	20	
	AB	3,823,358	07/09/74	Rey	320	3	
	AC	4,721,660	01/26/88	Kujas	429	40	
	AD	4,883,724	11/28/89	Yamamoto	429	23	
	AE	5,318,142	06/07/94	Bates et al.	180	65.2	
	AF	5,339,018	08/16/94	Brokaw	320	35	
	AG	5,714,874	02/03/98	Bonnefoy	323	299	
	AH	5,916,699	06/29/99	Thomas et al.	429	3	
	AI	6,011,324	01/04/00	Kohlstruck et al.	307	64	
	AJ	6,030,718	02/29/00	Fuglevand et al.	429	26	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	1 080 680	04/28/60	DE		
	AL	1 301 861	08/28/69	DE		
	AM	WO 02/095851 A1	11/28/02	WIPO		

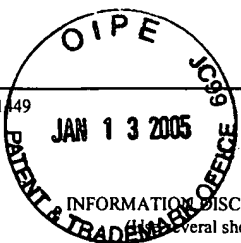
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AN	Boyer, C., et al., "Evaluation of Methods to Increase the Oxygen Partial Pressure in PEM Fuel Cells," <i>Journal of Applied Electrochemistry</i> 29:1095-1102, 1999.
	AO	Mai, W., "Dual Current-Limiting Switch for USB Applications," <i>Electronic Design</i> , pp. 124, 126, May 2000.
	AP	Rufer, A., et al., "A Supercapacitor-Based Energy Storage System for Elevators with Soft Commutated Interface," in <i>Proceedings of the Energy Storage Association, Spring Meeting 2001</i> , Chattanooga, TN, March 2001, retrieved from <a href="http://leiwww.epfl.ch/publications/rufer_barrade_ias_01.pdf">http://leiwww.epfl.ch/publications/rufer_barrade_ias_01.pdf</a> .

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

130109.442

APPLICATION NO.

10/017,462

APPLICANT

Martin T. Pearson

FILING DATE

December 14, 2001

GROUP ART UNIT

1745

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	6,100,665	08/08/00	Alderman	320	127	
	BB	6,255,008	07/03/01	Iwase	429	9	
	BC	6,497,974	12/24/02	Fuglevand	429	22	
	BD	2001/0044040	11/22/01	Uribe et al.	429	13	
	BE	2001/0049038	12/06/01	Dickman et al.	429	19	
	BF	2002/0021109	02/21/02	Marvin et al.	320	134	
	BG	2002/0031692	03/14/02	Fuglevand et al.	429	22	
	BH	2002/0036430	03/28/02	Welches et al.	307	18	
	BI	2002/0094476	07/18/02	Mattejat et al.	429	160	
	BJ	2002/0102447	08/01/02	Kato	429	23	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK					

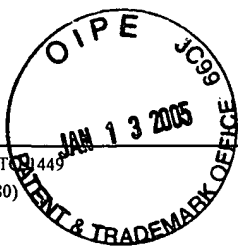
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BL	Schneuwly, A., et al., "BOOSTCAP® Double-Layer Capacitors for Peak Power Automotive Applications," in <i>Proceedings of the Energy Storage Association, Spring Meeting 2001</i> , Chattanooga, TN, March 2001, retrieved from <a href="http://ecl.web.psi.ch/Publications/cap_pub/AABC_2002.pdf">http://ecl.web.psi.ch/Publications/cap_pub/AABC_2002.pdf</a> .
	BM	EPRIsolutions, Inc., "Market Assessment of Asymmetrical Ultracapacitors for Medium and High Power Applications," Palo Alto, CA, 2000, 1000810.
	BN	Power Distribution, Inc., "PDI Switcher Solutions: CBEMA Curve Reissued," Richmond, VA, 1998.
	BO	Texas Instruments Incorporated, "'Hot Plug-In' In-Rush Current Limiting Circuits for Power Trends' DC-DC Converters," Dallas, TX, 2000.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



EXPRESS MAIL NO. EV335613713US

Sheet 3 of 3

FORM PTO 449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
130109.442APPLICATION NO.  
10/017,462INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)APPLICANT  
Martin T. PearsonFILING DATE  
December 14, 2001GROUP ART UNIT  
1745

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	2002/0109410	08/15/02	Young et al.	307	64	
	CB	2002/0169523	11/14/02	Ross et al.	700	286	
	CC	2003/0022037	01/30/03	Parr et al.	429	22	
	CD	2003/0113594	06/19/03	Pearson	429	9	
	CE	2004/0009380	01/15/04	Pearson	429	23	
	CF	2004/0126635	07/01/04	Pearson	429	23	
	CG	2004/0228055	11/18/04	Pearson	361	93.1	
	CH	2004/0229095	11/18/04	Pearson	429	23	
	CI	60/421,126		Pearson			05/16/02
	CJ	60/436,759		Pearson			12/27/02

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK					
	CL					
	CM					
	CN					
	CO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CP		
	CQ		
	CR		

EXAMINER

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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).